

ABSTRACT OF THE DISCLOSURE

A Planar Inverted F Antenna (PIFA) and a radio module integrated into a single module. The present invention permits the PIFA to be removably secured on the top of a radio chip module. In one embodiment of the invention, a non-
5 conductive antenna frame is removably secured to a radio chip. A radiating element or "patch" is then secured to the top of the frame. The patch has feed and shorting pins connected thereto. The integrated radio/antenna system can be mounted on a PCB using standard surface-mount techniques and the feed and shorting pins can be soldered to the PCB. In another embodiment of the
10 invention, a cover is removably secured to the frame to retain the patch on the frame. The cover has a window to permit the feed and shorting pins to be soldered to the PCB.

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